

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REISSUE APPLICATION DECLARATION BY THE INVENTOR	Docket Number (Optional) 740819-617
---	--

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is described and claimed in patent number 6,117,700, granted September 12, 2000, and for which a reissue patent is sought on the invention entitled METHOD FOR FABRICATING SEMICONDUCTOR DEVICE HAVING GROUP III NITRIDE

the specification of which

is attached hereto.
 was filed on _____ as reissue application number _____ /
 and was amended on _____
 (If applicable)

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56. I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)

by reason of a defective specification or drawing.
 by reason of the patentee claiming more or less than he had the right to claim in the patent.
 by reason of other errors.

At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:

The original patent claims less than I had a right to claim due to the fact that specific methods also disclosed in the original patent application were not fully appreciated and, therefore, no claims directed to these methods were presented. In particular, I did not fully appreciate the significant aspect of my invention which discloses a method for fabricating a semiconductor device, comprising the steps of forming a semiconductor layer of a Group III nitride containing a dopant over a substrate, as well as other steps to make the conductivity type of the semiconductor layer p-type. For instance, I did not fully appreciate the significant aspect of my invention which discloses a method of applying RF power on the semiconductor layer. I also did not fully appreciate the significant aspect of my invention which discloses a method comprising the step forming a p-side electrode out of a metal on the semiconductor layer, and applying RF power on the semiconductor layer. In addition, I also did not fully appreciate the significant aspects of my invention which discloses a method comprising the step of charging plasma into the vacuum chamber to form an ambient of plasma while keeping the temperature of the substrate at about 600°C or lower after introducing the substrate into a vacuum chamber. Finally, I further did not fully appreciate the significant aspects of my invention which discloses a method comprising the steps of forming a p-side electrode out of a metal on the semiconductor layer, and after introducing the substrate into a vacuum chamber, charging plasma into the vacuum chamber to form an ambient of plasma while keeping the temperature of the substrate at about 600°C or lower. The issued claims 1-15 of the present patent fail to claim these methods. Therefore, the original patent claimed less than I had a right to claim and have a narrower scope of protection. The above described methods and dependent variations thereof supported in the original patent are now claimed in added claims 16 to 43 of the subject reissue application.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.5 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETE FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2)

Docket Number (Optional)
740819-617

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.

Name(s)	Registration Number	Name(s)	Registration Number
Daniel W. Sixbey	20,932	Eric J. Robinson	36,285
Stuart J. Friedman	24,312	Marc S. Kaufman	35,212
Charles M. Leedom, Jr.	26,477	Daniel S. Song	43,143
David S. Safran	27,997	James E. Howard	39,175
Thomas W. Cole	28,290	Corinne R. Gorski	34,339
Donald R. Studebaker	32,815	Jason H. Vick	45,285
Jeffrey L. Costelis	35,483	Luan C. Do	38,434
Tim L. Brackett, Jr.	36,092		

Correspondence Address: Direct all communications about the application to:

Customer Number

22204

Place Customer Number Bar
Code Label here

Type Customer Number here

<input type="checkbox"/> Firm or Individual Name			
Address			
Address			
City	State		Zip
Country			
Telephone	Fax		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

Full name of sole or first inventor (given name, family name)

Kenji ORITA

Inventor's signature	Kenji Orita	Date	October 29, 2001
----------------------	-------------	------	------------------

Residence	Osaka, Japan	Citizenship	Japan
-----------	--------------	-------------	-------

Mailing Address 1-44-9-C104, Tsunoe-cho, Takatsuki-shi, Osaka 569-0822, Japan

Full name of second joint inventor (given name, family name)

Masahiro ISHIDA

Inventor's signature	Masahiro Ishida	Date	October 29, 2001
----------------------	-----------------	------	------------------

Residence	Osaka, Japan	Citizenship	Japan
-----------	--------------	-------------	-------

Mailing Address 24-6, Ikaga-nishimachi, Hirakata-shi, Osaka 573-0066, Japan

Full name of third joint inventor (given name, family name)

Shinji NAKAMURA

Inventor's signature	Shinji Nakamura	Date	October 29, 2001
----------------------	-----------------	------	------------------

Residence	Osaka, Japan	Citizenship	Japan
-----------	--------------	-------------	-------

Mailing Address 1-3-507-403, Nasahara, Takatsuki-shi, Osaka 569-1041, Japan

Additional joint inventors are named on separately numbered sheets attached hereto.

(Page 2 of 2)

Docket Number (Optional) 740819-617
--

REISSUE APPLICATION DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u>1</u> of <u>1</u>
------------------------------------	---

Full name of fourth joint inventor (given name, family name) Masaaki YURI
--

Inventor's signature <i>Masaaki YURI</i>	Date October 29, 2001
Residence Osaka, Japan	Citizenship Japan

Mailing Address 6-26-1201, Funaki-cho, Ibaraki-shi, Osaka 567-0828, Japan

Full name of fifth joint inventor (given name, family name)

Inventor's signature	Date
----------------------	------

Residence	Citizenship
-----------	-------------

Mailing Address

Full name of sixth joint inventor (given name, family name)

Inventor's signature	Date
----------------------	------

Residence	Citizenship
-----------	-------------

Mailing Address

Full name of seventh joint inventor (given name, family name)

Inventor's signature	Date
----------------------	------

Residence	Citizenship
-----------	-------------

Mailing Address

Full name of eighth joint inventor (given name, family name)
--

Inventor's signature	Date
----------------------	------

Residence	Citizenship
-----------	-------------

Mailing Address

Full name of ninth joint inventor (given name, family name)

Inventor's signature	Date
----------------------	------

Residence	Citizenship
-----------	-------------

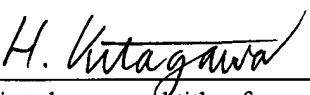
Mailing Address

Full name of tenth joint inventor (given name, family name)

Inventor's signature	Date
----------------------	------

Residence	Citizenship
-----------	-------------

Mailing Address

REISSUE APPLICATION: CONSENT OF ASSIGNEE; STATEMENT OF NON-ASSIGNMENT		Docket Number (Optional) 740819-617
<p>This is part of the application for a reissue patent based on the original patent identified below.</p> <p>Name of Patentee(s) Kenji ORITA, Masahiro ISHIDA, Shinji NAKAMURA, and Masaaki YURI</p> <p>Patent Number 6,117,700</p> <p>Date Patent Issued September 12, 2000</p> <p>Title of Invention METHOD FOR FABRICATING SEMICONDUCTOR DEVICE HAVING GROUP III NITRIDE</p> <p>1. <input checked="" type="checkbox"/> Filed herein is a statement under 37 CFR 3.73(b). (Form PTO/SB/96) 2. <input type="checkbox"/> Ownership of the patent is in the inventor(s), and no assignment of the patent is in effect.</p> <p>One of boxes 1 or 2 above must be checked. If multiple assignees, complete this form for each assignee. If box 2 is checked, skip the next entry and go directly to "Name of Assignee".</p> <p>The written consent of all assignees and inventors owning an undivided interest in the original patent is included in this application for reissue.</p>		
<p>The assignee(s) owning an undivided interest in said original patent is/are <u>Matsushita Electric Industrial Co., Ltd.</u>, and the assignee(s) consents to the accompanying application for reissue.</p> <p>Name of assignee/inventor (if not assigned) Matsushita Electric Industrial Co., Ltd.</p> <p>Signature </p> <p>Date October 29, 2001</p> <p>Typed or printed name and title of person for assignee (if assigned) Hidemasa KITAGAWA General Manager, IP Development Center, Authorized Signing Officer</p>		

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

REISSUE APPLICATION BY THE ASSIGNEE, OFFER TO SURRENDER PATENT	Docket Number (Optional) 740819-617
---	--

This is part of the application for a reissue patent based on the original patent identified below.

Name of Patentee(s) Kenji ORITA, Masahiro ISHIDA, Shinji NAKAMURA, and Masaaki YURI	
Patent Number 6,117,700	Date Patent Issued September 12, 2000
Title of Invention METHOD FOR FABRICATING SEMICONDUCTOR DEVICE HAVING GROUP III NITRIDE	

Matsushita Electric Industrial Co., Ltd., is the assignee of the entire interest in the original patent.

I offer to surrender the original patent.

A certificate under 37 CFR 3.73(b) is attached.

I am authorized to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application, any patent issued thereon, or any patent to which this declaration is directed.

Name of assignee Matsushita Electric Industrial Co., Ltd.	
Signature of person signing for assignee <i>H. Kitagawa</i>	Date October 29, 2001
Typed or printed name and title of person signing for assignee Hidemasa KITAGAWA General Manager, IP Development Center Authorized Signing Officer	

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Honorable Commissioner of Patent and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): MATSUSHITA ELECTRONICS CORPORATION

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):

Name: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.Street Address: 1006, Oaza Kadoma, Kadoma-shiCity OSAKA Country: JAPANZIP: 571-8501Additional name(s) & addresses(es) attached? Yes No

3. Name of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: April 4, 20014. Application number(s) or patent number(s): SEE ATTACHED.

If this document is being filed together with a new application, the execution date of the application is: _____

Title: _____

A: Patent Application No.

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: NIXON PEABODY LLPStreet Address: 8180 Greensboro Drive, Suite 800City: McLean State: Virginia ZIP 221026. Total number of applications and patents involved: 1057. Total fee (37 CFR 3.41):\$ 4200.00

Enclosed (Check Attached)
 Authorized to be charged to deposit account
 Authorized to charge any deficiency in the payment of the required fee(s) or credit any overpayment to Deposit Account No. 19-2380.

8. Deposit Account Number: _____

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Eric J. Robinson
Name of Person Signing
SignatureJune 7, 2001
Date

Total number of pages comprising cover sheet, attachments and document: 10

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Matsushita Electric Industrial Co., Ltd.Application No./Patent No.: 6,117,700 Filed/Issue Date: September 12, 2000Entitled: METHOD FOR FABRICATING SEMICONDUCTOR DEVICE HAVING GROUP III NITRIDEMatsushita Electric Industrial Co., Ltd., a corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest; or
2. an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Kenji Orita, Masahiro Ishida, Shinji Nakamura, and Masaaki Yuri To: Matsushita Electronics Corporation
The document was recorded in the United States Patent and Trademark Office at Reel 010222, Frame 0748, or for which a copy thereof is attached.
2. From: Matsushita Electronics Corporation To: Matsushita Electric Industrial Co., Ltd.
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

 Additional documents in the chain of title are listed on a supplemental sheet. Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

October 29, 2001Hidemasa KITAGAWA

Date

Typed or printed name

H. Kitagawa

Signature

General Manager,
IP Development Center, Authorized Signing

Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.